EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|---|--|---------------------|---------|---------------------|
| L19 | 511 | (@pd<"20040208" or @ad<"20040209") and electrolumines\$5 and (heterocyd\$4 heteroaromati\$4 heteroaryl) same ("electron-transporting" "electron transporting" "electron transport") | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:13 |
| L28 | 334 | (@pdc "20040208" or @adc "20040209") and electrolumines\$5 and (heterocyd\$4 heteroaromati\$4 heteroaryl) same ("electron-transporting" felectron transporting "electron transporting 10426/690 428/917 428/411.1 428/336 313/508 | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:15 |
| L18 | 295 | (@pd<"20040208" or @ad<"20040209") and ("electron-transporting" "electron transporting") same "ionization potential" | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:11 |
| L13 | 274 | (@pd<"20040208" @ad<"20040209") and host with "electron-transporting" and electroluminescent | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:10 |
| S62 | 266 | (@pd<"20040208" (@ad<"20040209") and host with "electron-transporting" and electroluminescent | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 10:30 |
| S77 | 255 | (@pd<"20040208" or @ad<"20040209") and ("electron-transporting" "electron transporting") same "ionization potential" | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:47 |
| L24 | 198 | (@pd<"20040208" @ad<"20040209") and host with "electron-transporting" and electroluminescent and (428/680 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/505 313/508 313/509 257/40 257/68 257/104 257/E51\$ 548/304.4 548/305.1 548/103 548/101 313/498).ods. | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:15 |
| L25 | 198 | (@pd<"20040208" @ad<"20040209") and host with "electron-transporting" and electroluminescent and (428/680 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/504 315/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51\$ 548/304.4 548/305.1 548/103 548/101 313/498).051 | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:15 |
| L21 | 175 | (@pd<"20040208" or @ad<"20040209") and electrolumines\$5 and (heterocyd\$4 heteroaromati\$4 heteroaryl) same | US- PGPUB; USPAT; | OR | ON | 2012/01/30 08:13 |

| | | ("electron-transporting" "electron transporting" "electron transport") same (pyridine\$3 pyrazin\$3 triazin\$3 carbazol\$3) | DERWENT | | | |
|----------|-----|--|------------------------------------|------|-----|---------------------|
| L15 | 166 | (@pd<"20040208" @ad<"20040209") and electroluminescent and LUMO same HOMO same difference | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:10 |
| L20 | 161 | (@pd<"20040208" or @ad<"20040209") and electrolumines\$5 and (heterocyd\$4 heteroaromat\$4 heteroary) same ("electron-transporting" "electron transporting" "electron transport") same (pyridine\$3 pyrazin\$3 triazin\$3) | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:13 |
| S71 | 161 | (@pd<"20040208" @ad<"20040209") and electroluminescent and LUMO same HOMO same difference | US- PGPUB; USPAT | OR | OFF | 2011/03/29 08:25 |
| <u>L</u> | 157 | "2009024858" "20090009074" "2009009073" "20070237984" "20070267970" "20070138950" "20070052346" "20070138950" "20070052346" "20070054151" "20070224446" "20060141288" "2006013979" "20070141387" "20060013879" "20070195083" "2007019701" "20070159083" "2007019701" "20070159083" "2007019701" "20070159083" "2007019701" "20070159083" "20080248391" "7576486" "20060049410" "2006004589" "7459425" "20060049410" "2006004589" "7459425" "20060049410" "2006004589" "7459425" "2006004131882" "4619426" "612042" "6206081" "634759" "2008024365" "7469425" "200600172147" "6157127" "6157166" "6001413" "6137459" "2049826" "749425" "200600172147" "6157127" "6157166" "6001413" "6137459" "204980243473" "20090072732" "200900243473" "20090072732" "20090043731" "20090045333" "2009000966" "20090009666" "2009000966" "20090009666" "2009000966" "20090009665" "2009000986" "20090009665" "2009000986" "20090009665" "2009001333" "2008206597" "20080100213" "2009001728867" "2007019868" "20070128867" "20070116882" "20070128467" "20070111024" "20060051613" "20070111024" "20060051613" "20070111024" "20060051613" "20070111024" "20060051613" "20070111024" "20060051613" "20070111024" "20060051613" "20070109760" "20060051613" "20001014124" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20070109760" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "20060108006" "20060051613" "200600606" "20060051613" "200600606060606060606060606060606060606 | US- PGPUB; USPAT; DERWENT | ÖR . | ON | 2012/01/30 08:09 |
| S35 | 133 | (@pd<"20040208" @ad<"20040209") and electroluminescent and host same | US- PGPUB; | OR | OFF | 2010/05/10 05:29 |
| L26 | 128 | "ionization potential" (@pd<"20040208" @ad<"20040209") and | USPAT US- | OR | ON | 2012/01/20 |
| ∠6 | 120 | legtroluminescent and LUMO same HOMO same difference and (428/690 428/917 428/411.1 428/336 313/502 313/503 | PGPUB; USPAT; DERWENT | | JN | 2012/01/30 08:15 |

| | | 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51\$ 548/304.4 548/305.1 548/103 548/101 313/498).cds. | | | | |
|-----|-----|--|------------------------------------|----|-----|---------------------|
| L30 | 121 | @pdc "20040208" or @adc "20040209") and electrolumines\$5 and (heterocyd\$4 heteroaromati\$4 heteroaryi) same ("electron-transporting" "electron transport") same (pyridine\$3 pyrazin\$3 triazin\$3 carbazol\$3) and (428/680 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/502 313/508 313/509 257/40 257/80 257/102 4257/E51\$ 548/304.4 548/305.1 548/103 548/101 313/498), obs. and (pyrazin\$5 carbazol\$4 pyridin\$4 triazin\$4) | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:16 |
| L29 | 121 | [(@pd<"20040208" or @ad<"20040209") and electrolumines\$5 and (heterocyd\$4 heteroaromati\$4 heteroary) same ("electron-transporting" "electron transporting" "electron transport") same (pyridine\$5 pyrazin\$3 triazin\$3 carbazol\$3) and (428/690 42917 428/411.1 428/398 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51\$ 548/304.4 548/305.1 548/103 548/101 313/498).cds. | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:15 |
| L17 | 119 | (@pd<"20040208" or @ad<"20040209") and ("electron-transporting" "electron transporting") same ("hole mobility" "hole mobilities") | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:11 |
| S75 | 116 | (@pd<"20040208" or @ad<"20040209") and ("electron-transporting" "electron transporting") same ("hole mobility" "hole mobilities") | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:45 |
| L22 | 110 | (@pd<"20040208" or @ad<"20040209") and electrolumines\$5 and (heterocyd\$4 heteroaromati\$4 heteroary) same ('electron-transporting' "electron transporting" "electron transport") same (pyridine\$3 pyrazin\$3 triazin\$3 carbazol\$3) and (ionization triplet) | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:14 |
| S73 | 102 | "20030175553" | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:40 |
| 826 | 85 | "20090224658" "2009009074" "2009009073" "20070237984" "20070287970" "20070138950" "20070168898" "760899320070013295" "2007022446" "20070054151" "20070222446" "20060141288" "2006019279" "20070141387" "20060033421" "20050064233" "2007019701" "20070159083" "20070257600" "20070296328" "20080246391" "7576486" "20060172147" "2006014771" "20060154105" "2006014771" "20060154105" "2006014771" "20060154105" "200601478" "6167403439" "20040131882" "2080214565" "7034339" "20040131882" "6167127" "6175186" "6001413" "6137459" "6187459" "61768986" "6104161" "6137459" | US- PGPUB; USPAT | OR | OFF | 2009/10/15 12:56 |

| | | "5505985" "5503910" "5516577" "5427858" "20090243743" "20090027732" "20090174313" "200900218933" "20090045731" "20090045730" "20090005967" "20090009066" "20090009067" "20090009067" "20090009067" "20090009067" "20090007330" "2009007351" "20090017330" "2009007351" "20090017330" "200900730202" "200701249866" "200701249861" "20060163542" "725053220050249976" "20070149686" "20070128467" "2007016976" "20070090753" "2007016976" "20070090753" "2007016976" "20070090753" "2007016976" "2007009753" "2007016976" "2007009753" "2007016976" "2007009753" "2007016976" "2007009753" "2007016976" "2007009753" "2007016976" "2007009753" "200701976" "2007009753" "200701976" "2007009753" "200701976" "2007009753" "2007019778" "2007009753" "2007019778" "2007009753" "2007019778" "2007009753" "2008015806" "20060158784" "20080157823" "725331220040082813" "2006016745") pn. | | | | |
|-----|----|--|--|----|-----|---------------------|
| L3 | 81 | (@pd<"20040208" or @ad<"20040209") and electroluminescent and ((LUMO or HCMO or "energy gap" or triplet) same iridium same ppy) | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:09 |
| S21 | 80 | (@pd<"20040208" or @ad<"20040209") and electroluminescent and ((LUMO or HCMO or "energy gap" or triplet) same iridium same ppy) | US- PGPUB; USPAT | OR | OFF | 2009/10/14 13:58 |
| L27 | 79 | [@pdc-"20040208" or @adc-"20040209") and ("eledron-transporting" electron transporting") same ("hole mobilities") and (#28/690 428/91", "428/411.1 428/386 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/104 257/88 257/104 257/81 557/91 557/ | US- PGPUB; USPAT; DERWENT | OR | 8 | 2012/01/30 08:15 |
| S36 | 75 | (@pd<"20040208" @ad<"20040209") and electroluminescent and host same "ionization potential" same eV | US- PGPUB; USPAT | OR | OFF | 2010/05/10 05:30 |
| L7 | 71 | (@pd<"20050609" @ad<"20050620") and electroluminescent and fluorenyl same polymer | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:09 |
| L9 | 58 | (@pd<"20040208" @ad<"20040209") and electroluminescent and "ionization potential" same host same ("electron- transporting" or "electron transporting") | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:10 |
| S58 | 54 | (@pd<"20040208" @ad<"20040209") and electroluminescent and "ionization potential" same host same ("electron- transporting" or "electron transporting") | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 09:51 |
| 533 | 46 | (@pd<"20050609" @ad<"20050620") and electroluminescent and fluorenyl same polymer | US- PGPUB; USPAT | OR | OFF | 2010/05/07 11:18 |
| L2 | 43 | (@pd<"20040208" or @ad<"20040209") and electroluminescent and (("electron- injecting layer" or "electron injecting layer") | US- PGPUB; USPAT; | OR | ON | 2012/01/30 08:09 |

| | <u> </u> | same Alq) | DERWENT | <u> </u> | <u> </u> | |
|------|----------|--|--|----------|----------|---------------------|
| S20 | 40 | (@pd<"20040208" or @ad<"20040209") and electroluminescent and (("electron- injecting layer" or "electron injecting layer") same Alq) | US- PGPUB; USPAT | OR | OFF | 2009/10/14 13:09 |
| L6 | 29 | "20090245658" "2009009074" "2009009073" "20070237984" "20070267970" "20070138950" "20070168898" "20070138950" "20070168898" "20070054151" "20070224446" "20060141288" "20060139279" "20070141387" "20060033421" "20050064233" "20070194701" "20070195096328" "20070194701" "20070195096328" "20070257600" "20070296328" "20080248391" "7576486" "20060172147" "2006147747" "2006154105" "20060043859" "7294285" "20060049410" "20050214565" "7034339" "20040131882" "6157127" "6175186" "60001413" "6137459" "634712" "6157127" "6175186" "60001413" "6137459" "6284393" "5891554" "590981" "5869929" "5505986" "5503910" "5516577" "5427858" "200800243473" "20090072732" "2009003967" "200900966" "2009009667" "200900966" "2009009667" "200900966" "2009009667" "2009009660" "2009009667" "2009009660" "2009009667" "2009009660" "2009009667" "2009009667" "2009017330" "20080206597" "20070190366" "20070172888" "20070190366" "20070172886" "20070190366" "20070172887" "20070190366" "20070172887" "20070190366" "20070172887" "20070190366" "20070172887" "20070190366" "20000197077" "20070190366" "20000197077" "20070190366" "20000197077" "200701190486" "20070192867" "20070190366" "20000197077" "200701190486" "20070192867" "20070190366" "200001955764" "20070190366" "2000019557684" "2006016678" "720581226040082813" " "2006016788" "72358122040082813" " "20060167878" "72358122040082813" " "20060167879" "72358122040082813" " "2006016790" "7005016790" "electron "ansporting") " "electron "ansporting") "ansporting") "ansporting") "ansporting") "ansporting") | US- PGPUB; USPAT; DEFWENT | OR | CN | 2012/01/30 08:09 |
| 82 | 25 | 2002-343572 | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 11:42 |
| L16 | 25 | (@pd<"20040208" or @ad<"20040209") and ("triplet" same CBP same eV) | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:11 |
| S72 | 25 | (@pd<"20040208" or @ad<"20040209") and ("triplet" same CBP same eV) | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:40 |
| \$27 | 24 | ("20090224658" "20090009074" "20090009073" "20070237984" "20070267970" "20070138950" "20070108898" "760899320070013295" | US- PGPUB; USPAT | OR | OFF | 2009/10/15 12:59 |

| | | 20070052346" 20070054151" | | | | |
|-----|----|---|--|----|-----|---------------------|
| 837 | 20 | (@pd<"20040208" @ad<"20040209") and electroluminescent and host same "ionization potential" same eV same ("electron-transporting" or "electron transporting") | US- PGPUB; USPAT | OR | OFF | 2010/05/10 05:35 |
| S22 | 19 | (@pd<"20040208" or @ad<"20040209") and electroluminescent and ((LUMO or HOMO or "energy gap" or triplet) same iridium same ppy same ev) | US- PGPUB; USPAT | OR | OFF | 2009/10/14 13:58 |
| S41 | 19 | (@pd<"20040208" @ad<"20040209") and electroluminescent and iridium same (CN or cyanide) | US- PGPUB; USPAT | OR | OFF | 2010/05/10 06:35 |
| L14 | 14 | (@pd<"20040208" @ad<"20040209") and OBP same "ionization potential" same EV and electroluminescent | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:10 |
| S63 | 13 | (@pd<"20040208" @ad<"20040209") and CBP same "ionization potential" same EV and electroluminescent | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 10:54 |
| L4 | 11 | (@pd<"20040208" or @ad<"20040209") and electroluminescent and (Alq same "triplet energy") | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:09 |

| S23 | 11 | (@pd<"20040208" or @ad<"20040209") and electroluminescent and (Alq same "triplet energy") | US- PGPUB; USPAT | OR | OFF | 2009/10/14 15:41 |
|-----|----|--|--|----|-----|---------------------|
| L10 | 10 | (@pd<"20040208" @ad<"20040209") and electroluminescent and "ionization potential" same "electron-transporting material" | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:10 |
| S59 | 8 | (@pd<"20040208" @ad<"20040209") and electroluminescent and "ionization potential" same "electron-transporting material" | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 10:06 |
| S42 | 5 | "20020182441" | US- PGPUB; USPAT | OR | OFF | 2010/05/10 06:35 |
| S44 | 5 | "20020182441" | US- PGPUB; USPAT | OR | OFF | 2010/05/10 06:59 |
| S76 | 4 | (@pd<"20040208" or @ad<"20040209") and ("electron-transporting" "electron transporting") same ("hole mobility" "hole mobilities") same "ionization potential" | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:46 |
| S55 | 3 | 2002-305375 | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 09:40 |
| S56 | 3 | 2002-305375 | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 09:42 |
| L8 | 3 | (@pd<"20040208" @ad<"20040209") and electroluminescent and host same eV same "ionization energy" | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:10 |
| S57 | 3 | (@pd<"20040208" @ad<"20040209") and electroluminescent and host same eV same "ionization energy" | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 09:44 |
| L11 | 3 | (@pd<"20040208" @ad<"20040209") and electroluminescent and CEP same "triplet energy" same "ionization potential" | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:10 |
| S60 | 3 | (@pd<"20040208" @ad<"20040209") and electroluminescent and CBP same "triplet energy" same "ionization potential" | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 10:18 |
| 83 | 3 | "2002343572".pn. | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 11:42 |
| S83 | 3 | (*03080760* | US- PGPUB; USPAT; DERWENT | OR | OFF | 2012/01/29 21:04 |
| S18 | 2 | 2003JP-004139 | US- PGPUB; | OR | OFF | 2009/10/14 12:08 |

| | | | USPAT; JPO; DERWENT | | | |
|------------|---|---|--|----|-----|---------------------|
| S10 | 2 | "7270893".pn. | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 14:44 |
| S7 | 2 | "20070257600".pn. | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 14:24 |
| S8 | 2 | "20070224448",pn. | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 14:38 |
| S9 | 2 | "20050249976".pn. | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 14:43 |
| S67 | 2 | "20050208327" | US- PGPUB; USPAT | OR | OFF | 2010/10/20 13:29 |
| S84 | 2 | 20040086745" | US- PGPUB; USPAT; DERWENT | OR | OFF | 2012/01/29 21:07 |
| S 5 | 2 | "2003317966".pn. | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 13:21 |
| S70 | 2 | "2003067847" | US- PGPUB; USPAT; JPO | OR | OFF | 2011/03/29 08:04 |
| S86 | 2 | "2003-712758" | US- PGPUB; USPAT; EPO; DERWENT | OR | OFF | 2012/01/29 21:12 |
| S6 | 2 | "2002158091".pn. | US- PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2009/10/13 13:49 |
| S51 | 1 | 2004-012630 | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 09:35 |
| L12 | 1 | (@pd<"20040208" @ad<"20040209") and host with "electron-transporting" same nitrogen | US- PGPUB; USPAT; JPO; DERWENT | OR | ON | 2012/01/30 08:10 |
| S61 | 1 | (@pd<"20040208" @ad<"20040209") and | US- | OR | OFF | 2010/10/20 |

| | | host with "electron-transporting" same nitrogen | PGPUB; USPAT; JPO | | | 10:30 |
|-----|---|---|--------------------------------|----|-----|---------------------|
| S40 | 1 | (@pd< "20040208" @ad< "20040209") and electroluminescent and host same "triplet energy gap" | US- PGPUB; USPAT | OR | OFF | 2010/05/10 06:03 |
| S29 | 1 | "7597967" | US- PGPUB; USPAT | OR | OFF | 2010/05/06 13:09 |
| S19 | 1 | "6921590".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 12:49 |
| S25 | 1 | "6921590".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/15 11:10 |
| S15 | 1 | "20080145699".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 11:54 |
| S1 | 1 | "20070257600".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/13 10:16 |
| S49 | 1 | "20070116982" | US- PGPUB; USPAT | OR | OFF | 2010/10/20 09:34 |
| S12 | 1 | "20060257684".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 11:46 |
| S11 | 1 | "20060180806".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 11:45 |
| S16 | 1 | "20060154105".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 11:56 |
| S46 | 1 | "20060141284" | US- PGPUB; USPAT | OR | OFF | 2010/10/19 10:29 |
| S52 | 1 | "20060141284" | US- PGPUB; USPAT; JPO | OR | OFF | 2010/10/20 09:38 |
| S17 | 1 | "20060035109".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 11:59 |
| S14 | 1 | "20050286472".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 11:49 |
| S13 | 1 | "20050249976".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/14 11:47 |
| S81 | 1 | "20050249976" | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:55 |
| S65 | 1 | "20050208327".pn. | US- PGPUB; USPAT | OR | OFF | 2010/10/20 12:44 |
| S79 | 1 | "20040086745".pn. | US- PGPUB; | OR | OFF | 2012/01/29 20:53 |

| | | 1 | USPAT | 1 | | |
|-------------|---|-------------------|------------------------------------|----|-----|---------------------|
| S74 | 1 | "20030175553".pn. | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:40 |
| S43 | 1 | "20020182441".pn. | US- PGPUB; USPAT | OR | OFF | 2010/05/10 06:36 |
| S45 | 1 | "20020182441".pn. | US- PGPUB; USPAT | OR | OFF | 2010/05/10 06:59 |
| S24 | 1 | "20020096995".pn. | US- PGPUB; USPAT | OR | OFF | 2009/10/15 09:54 |
| S31 | 1 | "11956237" | US- PGPUB; USPAT | OR | OFF | 2010/05/07 10:29 |
| S32 | 1 | "11921766" | US- PGPUB; USPAT | OR | OFF | 2010/05/07 11:13 |
| S30 | 1 | "11722361" | US- PGPUB; USPAT | OR | OFF | 2010/05/07 10:02 |
| L1 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2012/01/30 07:24 |
| L23 | 1 | "10588549" | US- PGPUB; USPAT; DERWENT | OR | ON | 2012/01/30 08:14 |
| S2 8 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2010/05/06 12:52 |
| S34 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2010/05/10 05:18 |
| S47 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2010/10/19 10:32 |
| S48 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2010/10/20 09:20 |
| S64 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2010/10/20 12:03 |
| S66 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2010/10/20 13:04 |
| S68 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2011/03/29 07:40 |
| S78 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:49 |
| S80 | 1 | "10588549" | US- PGPUB; USPAT | OR | OFF | 2012/01/29 20:53 |
| S88 | 1 | "10588549" | US- | OR | OFF | 2012/01/29 |

| *************************************** | | | PGPUB; USPAT; EPO; DERWENT | | 21:25 |
|---|---|------------|-------------------------------------|----|---------------------|
| S82 | 1 | "03080760" | US- PGPUB; USPAT | OR | 2012/01/29 21:04 |

1/ 30/ 2012 8:16:36 AM C:\ Users\ jyang2\ Desktop\ Searches\ 10588549.wsp